FIG. 1

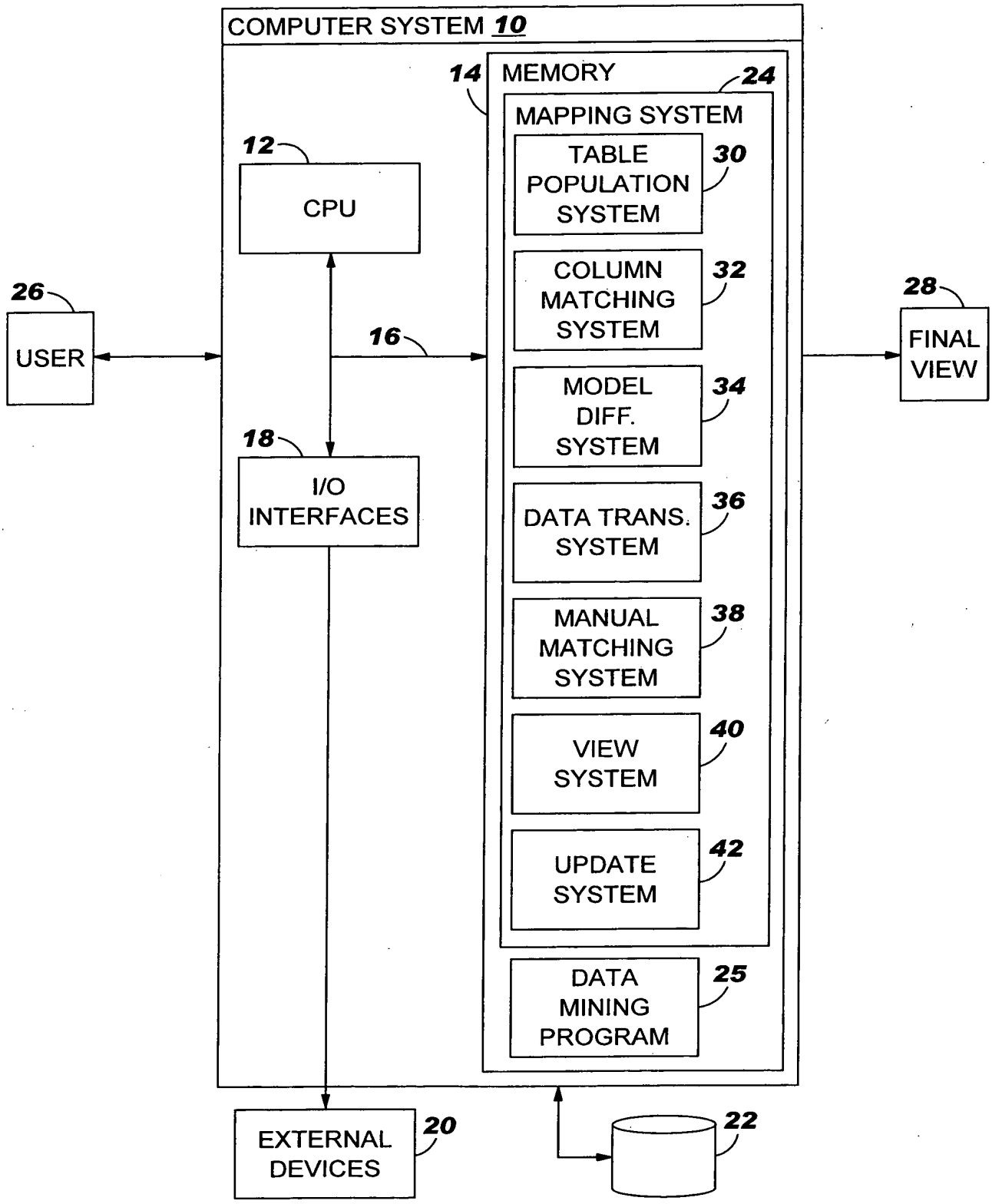

COMPUTER SYSTEM 10
14
MEMORY
24
MAPPING SYSTEM
12
CPU
TABLE POPULATION SYSTEM
30
COLUMN MATCHING SYSTEM
32
26
USER
16
28
FINAL VIEW
MODEL DIFF. SYSTEM
34
18
I/O INTERFACES
DATA TRANS. SYSTEM
36
MANUAL MATCHING SYSTEM
38
VIEW SYSTEM
40
UPDATE SYSTEM
42
DATA MINING PROGRAM
25
EXTERNAL DEVICES
20
22

FIG. 2

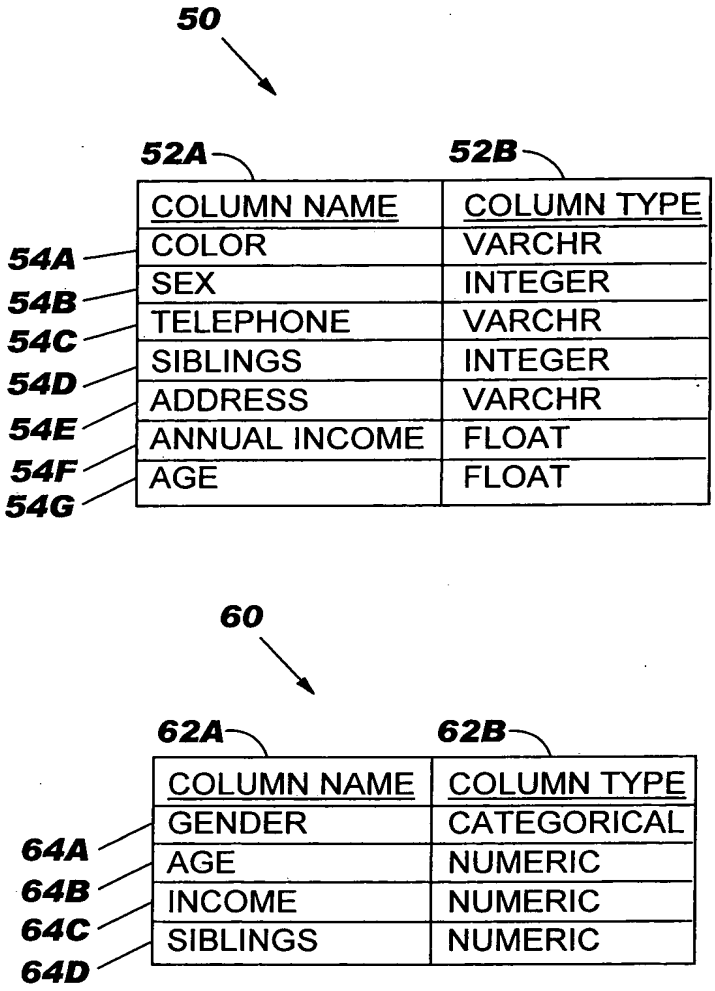

50
52A
52B
COLUMN NAME
COLUMN TYPE
54A
COLOR
VARCHR
54B
SEX
INTEGER
54C
TELEPHONE
VARCHR
54D
SIBLINGS
INTEGER
54E
ADDRESS
VARCHR
54F
ANNUAL INCOME
FLOAT
54G
AGE
FLOAT
60
62A
62B
COLUMN NAME
COLUMN TYPE
64A
GENDER
CATEGORICAL
64B
AGE
NUMERIC
64C
INCOME
NUMERIC
64D
SIBLINGS
NUMERIC

FIG. 3

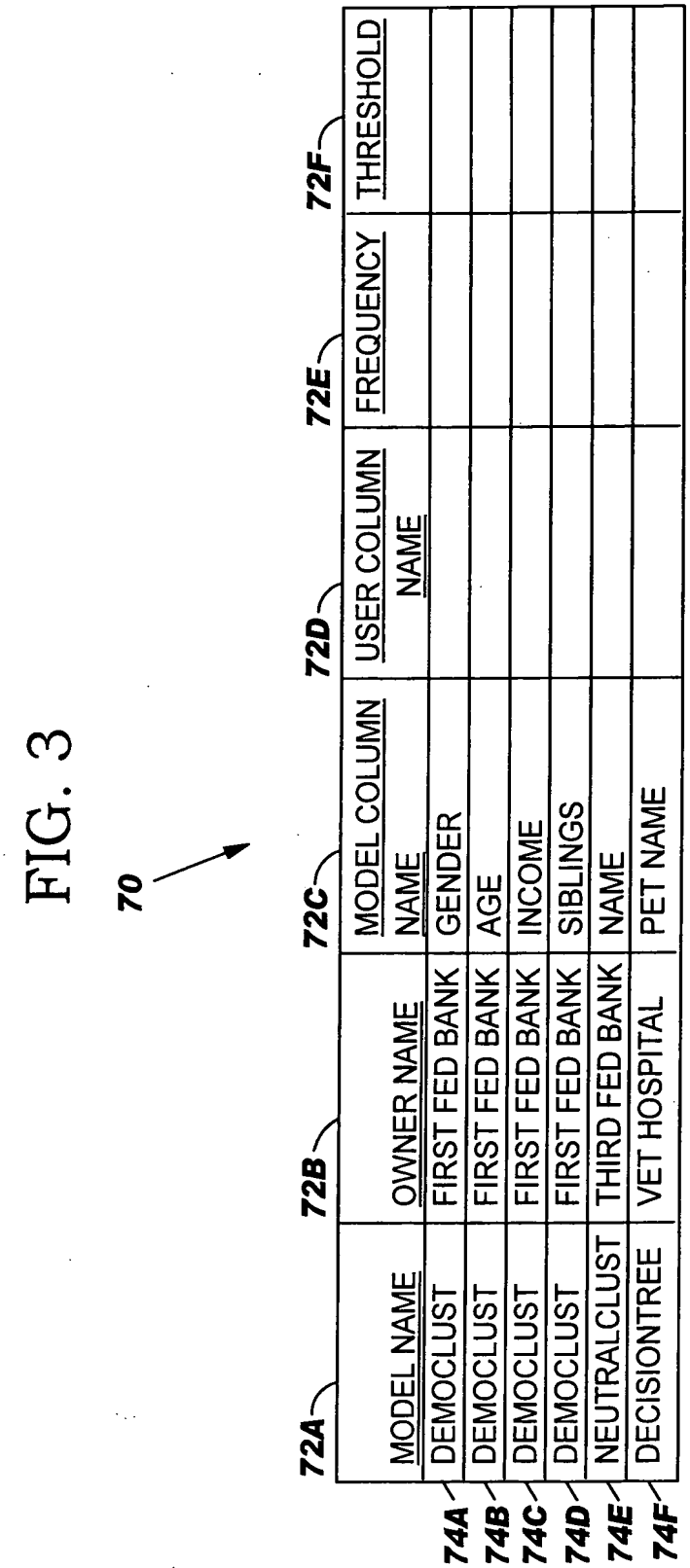

70
72A
72B
72C
72D
72E
72F
MODEL NAME
OWNER NAME
MODEL COLUMN NAME
USER COLUMN NAME
FREQUENCY
THRESHOLD
DEMOCLUST
FIRST FED BANK
GENDER
DEMOCLUST
FIRST FED BANK
AGE
DEMOCLUST
FIRST FED BANK
INCOME
DEMOCLUST
FIRST FED BANK
SIBLINGS
NEUTRALCLUST
THIRD FED BANK
NAME
DECISIONTREE
VET HOSPITAL
PET NAME
74A
74B
74C
74D
74E
74F

FIG. 4

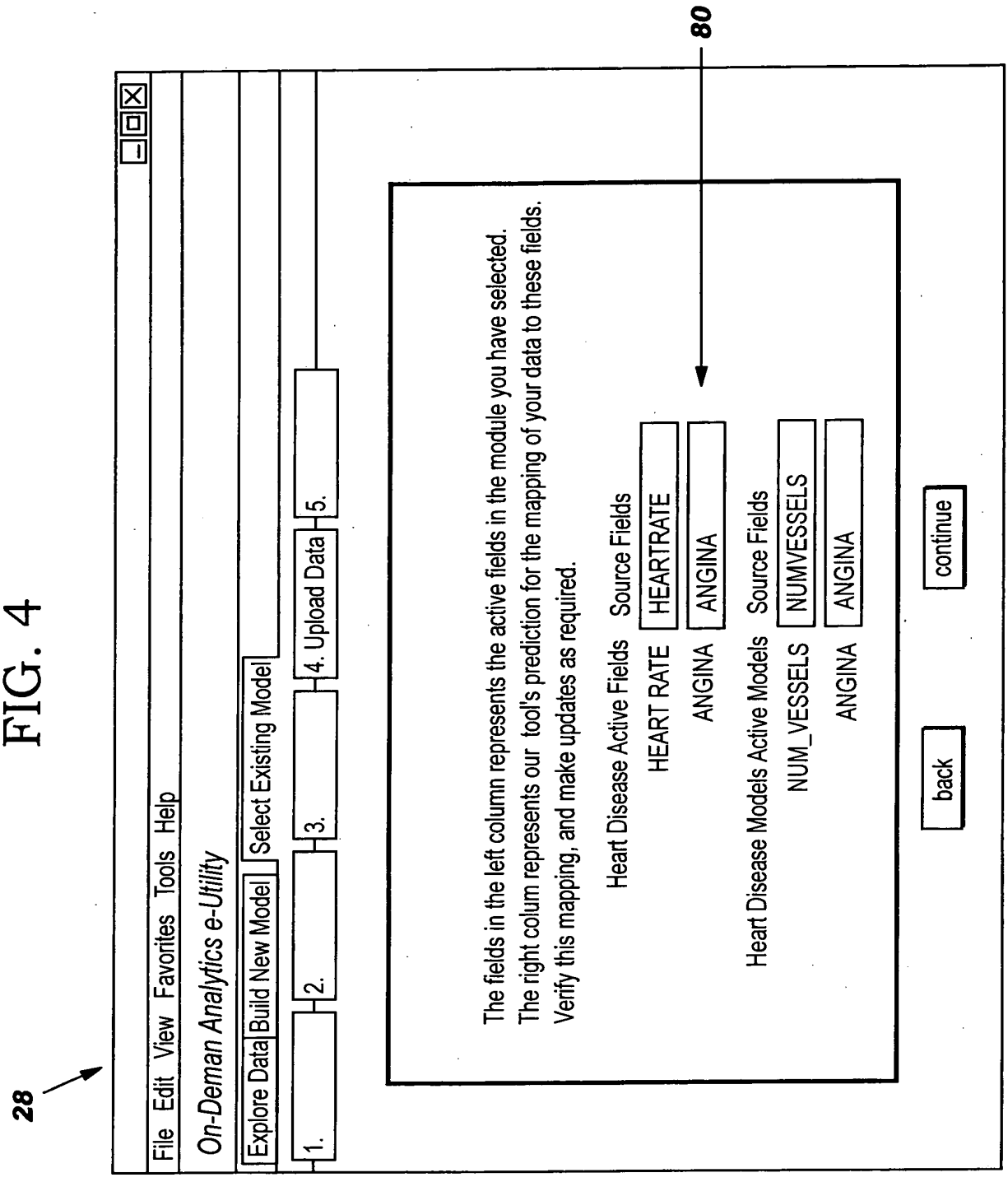

28
80
File Edit View Favorites Tools Help
On-Deman Analytics e-Utility
Explore Data
Build New Model
Select Existing Model
1.
2.
3.
4. Upload Data
5.
The fields in the left column represents the active fields in the module you have selected.
The right colum represents our tool's prediction for the mapping of your data to these fields.
Verify this mapping, and make updates as required.
Heart Disease Active Fields
Source Fields
HEART RATE
HEARTRATE
ANGINA
ANGINA
Heart Disease Models Active Models
Source Fields
NUM_VESSELS
NUMVESSELS
ANGINA
ANGINA
back
continue

FIG. 5

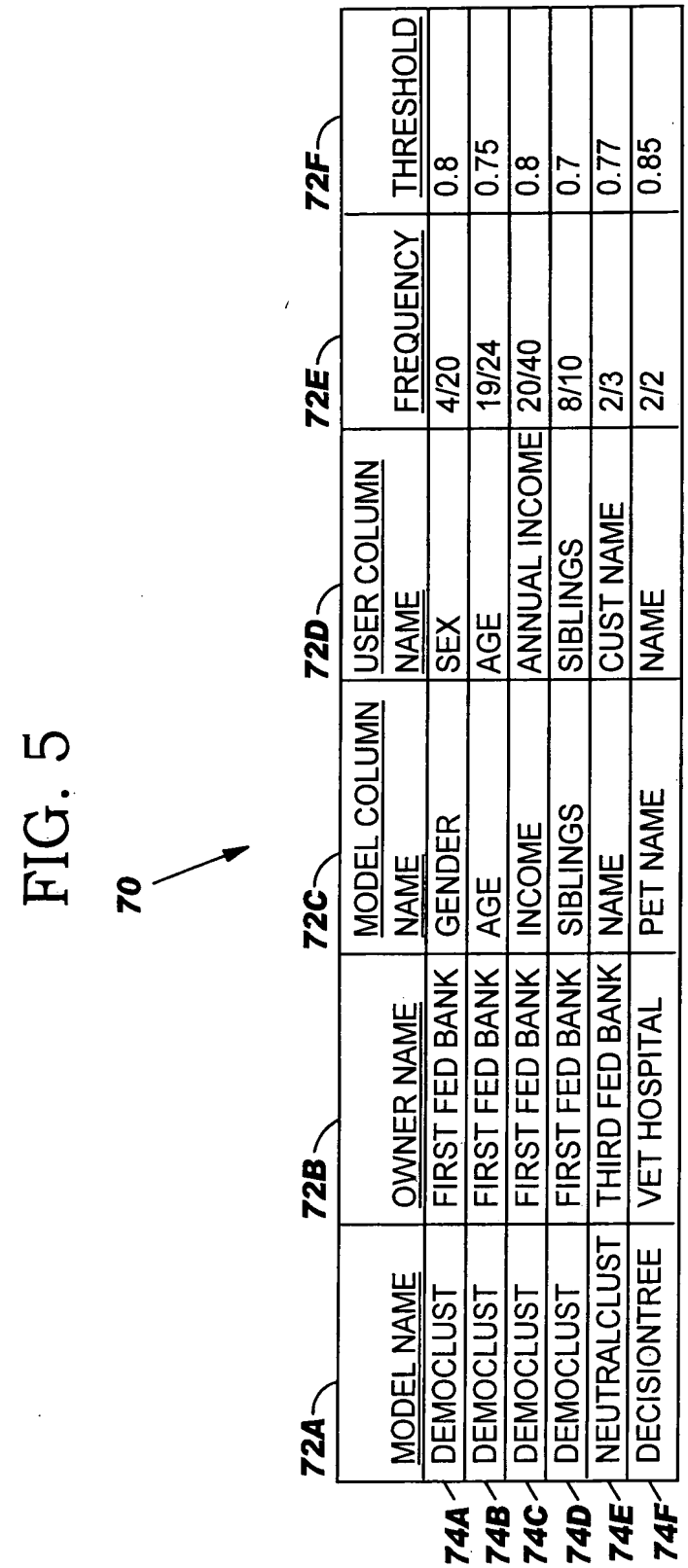
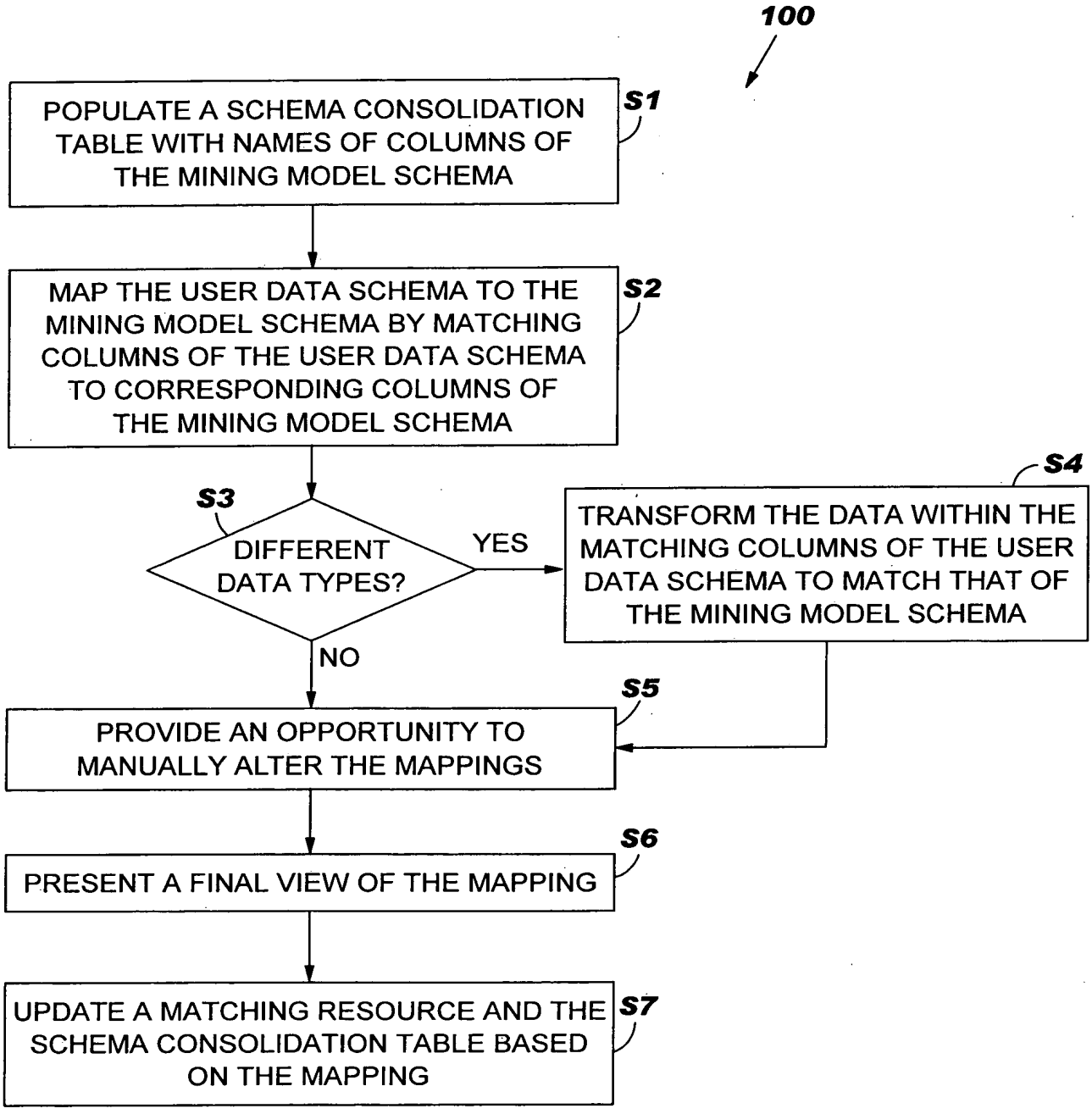

70
72A
72B
72C
72D
72E
72F
MODEL NAME
OWNER NAME
MODEL COLUMN NAME
USER COLUMN NAME
FREQUENCY
THRESHOLD
DEMOCLUST
FIRST FED BANK
GENDER
SEX
4/20
0.8
DEMOCLUST
FIRST FED BANK
AGE
AGE
19/24
0.75
DEMOCLUST
FIRST FED BANK
INCOME
ANNUAL INCOME
20/40
0.8
DEMOCLUST
FIRST FED BANK
SIBLINGS
SIBLINGS
8/10
0.7
NEUTRALCLUST
THIRD FED BANK
NAME
CUST NAME
2/3
0.77
DECISIONTREE
VET HOSPITAL
PET NAME
NAME
2/2
0.85
74A
74B
74C
74D
74E
74F

FIG. 6


100
POPULATE A SCHEMA CONSOLIDATION TABLE WITH NAMES OF COLUMNS OF THE MINING MODEL SCHEMA
S1
MAP THE USER DATA SCHEMA TO THE MINING MODEL SCHEMA BY MATCHING COLUMNS OF THE USER DATA SCHEMA TO CORRESPONDING COLUMNS OF THE MINING MODEL SCHEMA
S2
S3
DIFFERENT DATA TYPES?
YES
NO
S4
TRANSFORM THE DATA WITHIN THE MATCHING COLUMNS OF THE USER DATA SCHEMA TO MATCH THAT OF THE MINING MODEL SCHEMA
S5
PROVIDE AN OPPORTUNITY TO MANUALLY ALTER THE MAPPINGS
S6
PRESENT A FINAL VIEW OF THE MAPPING
S7
UPDATE A MATCHING RESOURCE AND THE SCHEMA CONSOLIDATION TABLE BASED ON THE MAPPING